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KENTUCKY WEEKLY CROP & WEATHER REPORT



Prepared in Cooperation with:
Univ. of Ky - Agr'l Weather Center
U.S. Dept. of Commerce - NOAA
Kentucky Department of Agriculture
Cooperative Extension Service

LELAND E. BROWN, State Statistician

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TNS 17-02

AGRICULTURAL NEWS: Clipping pastures, harvesting hay, taking care of the cattle, and general farm maintenance were the main farm activities for the week. The State received 1.29 inches of precipitation which was 0.24 inches above normal. However, most reporters across the State were commenting on the lack of precipitation. All areas of the State needs a good substantial soaking rain. The crops look good in those limited areas of the State that had received rain. Days suitable for fieldwork averaged 5.7 out of a possible seven days. **Topsoil moisture** as of Friday, July 12 was rated 19 percent very short, 33 percent short, 45 percent adequate, and 3 percent surplus. **Subsoil moisture** was rated 14 percent very short, 33 percent short, 51 percent adequate, and 2 percent surplus.

CORN: The condition of the corn crop continued to be mixed. Corn was showing signs of stress due to heat and lack of rain. Reports from the Western part of the State of increased corn borer activity. The condition of the corn was rated as 3 percent very poor, 10 percent poor, 31 percent fair, 40 percent good, and 16 percent excellent, as of Friday, July 12. Fifty-seven percent of the corn crop was silking compared to 80 percent a year ago, and 61 percent for the five year average. Corn in the milk stage was 30 percent as of July 14, this was above both last year when 29 percent of the corn was in the milk stage, and 16 percent for the five year average. No corn was in the dough stage compared with 9 percent a year ago and 4 percent for the five year average.

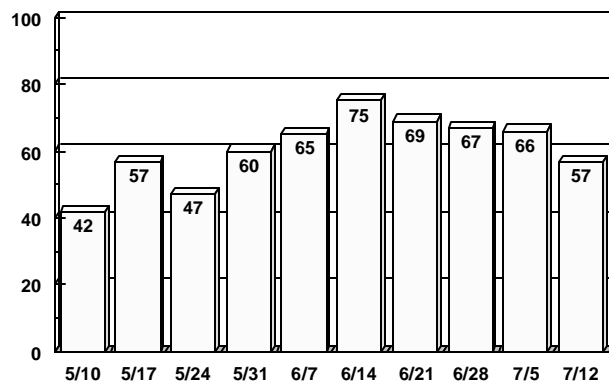
SOYBEANS: Like corn, the soybean condition was mixed at best. There were some reports of weed problems in

double crop soybeans. The soybean crop condition was rated as 1 percent very poor, 6 percent poor, 28 percent fair, 51 percent good, and 14 percent excellent. Nineteen percent of the crop was blooming as of July 14, this was below both the 38 percent of last year, and the five year average of 25 percent. Five percent of the soybean crop was setting pods, this was below the 11 percent last year, and 7 percent for the five year average.

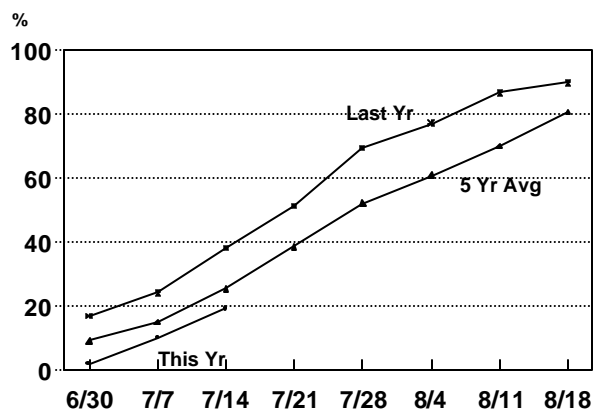
TOBACCO: Top dressing of tobacco was the major activity for the week. There was some reports of tobacco blooming prematurely. Reports of increased black shank were received from all parts of the State. There were some reports of rain and wind damage to the crop in the Western part of the State. Condition of the set tobacco was reported as 3 percent very poor, 11 percent poor, 29 percent fair, 43 percent good, and 14 percent excellent. As of July 14, 10 percent of the **burley** tobacco was blooming, and 2 percent had been topped. This compared with 31 and 11 percent respectively a year ago. The **dark tobacco** crop was 17 percent blooming, down from 43 percent a year ago, and 20 percent for the five year average.

OTHER CROPS: One of the major farm activities this past week continued to be the cutting, baling, and storage of **hay** throughout the State. Grass growth has slowed significantly due to the dry weather. The hay crop was rated as 1 percent very poor, 10 percent poor, 34 percent fair, 47 percent good, and 8 percent excellent. **Pasture** conditions have marginally declined across the State due to the lack of rain. Condition was rated as 3 percent very poor, 14 percent poor, 32 percent fair, 41 percent good, and 10 percent excellent.

BURLEY TOBACCO CONDITION
% Good to Excellent



SOYBEANS PERCENT BLOOMING



KENTUCKY CROP PROGRESS
WEEK ENDING JULY 14, 2002
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week KY	U.S.
Percentage					
Soybeans					
Blooming	19	38	25	10	19
Setting Pods	5	11	7	NA	NA
Corn					
Silking	57	80	61	48	11
Milk Stage	30	29	16	NA	NA
Burley Tobacco					
Blooming	10	31	14	NA	NA
Topped	2	11	6	NA	NA
Dark Tobacco					
Blooming	17	43	20	NA	NA

(NA) Data Not Available.

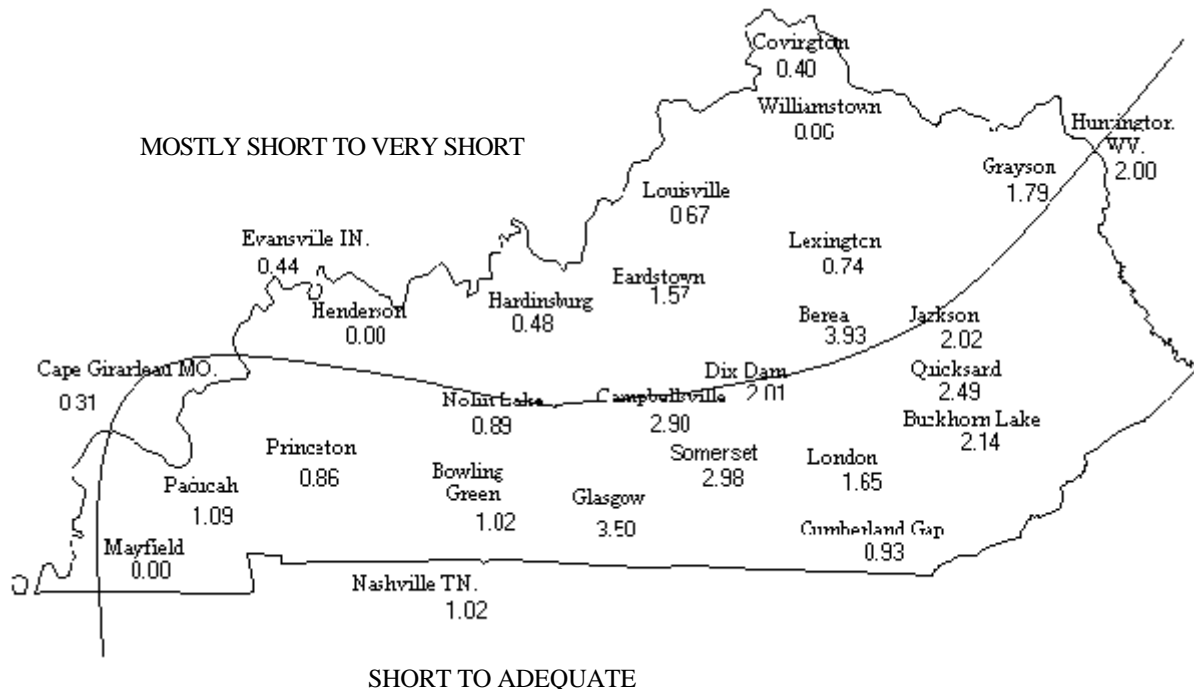
SOIL MOISTURE
WEEK ENDING JULY 12, 2002
WITH COMPARISONS

	This Week	Previous Week
Percentage		
TOPSOIL		
Very Short	19	13
Short	33	43
Adequate	45	43
Surplus	3	1
SUBSOIL		
Very Short	14	4
Short	33	38
Adequate	51	55
Surplus	2	3

KENTUCKY CROP CONDITIONS (Percent)

CROP	WEEK ENDING JULY 12, 2002					WEEK ENDING JULY 5, 2002				
	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT
Corn	3	10	31	40	16	1	8	28	46	17
Soybeans	1	6	28	51	14	1	5	28	51	15
Pasture	3	14	32	41	10	2	13	26	50	9
Tobacco	3	11	29	43	14	1	7	26	51	15
Hay Crops	1	10	34	47	8	1	9	25	52	13

PRECIPITATION MAP FOR WEEK ENDING SUNDAY, JULY 14, 7:00 P.M.
TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 12, 2002



KENTUCKY WEATHER SUMMARY, JULY 8 - 14, 2002:

NEAR NORMAL TEMPERATURES AND ABOVE NORMAL RAINFALL:

Overall, temperatures for the week averaged near normal. The week began with above normal temperatures across the State but with a frontal passage followed by substantial northeasterly flow, below normal temperatures occurred Friday, Saturday, and Sunday. Precipitation for the period was above normal for the State with three beneficial rainfall events, two early in the week on Tuesday and Wednesday, and the most substantial of the three on Saturday as the result of a slowly moving upper-level disturbance to the west of the State coupled with a lingering frontal system across the region.

Temperatures for the period averaged 76 degrees across the State which was near normal. High temperatures averaged from 89 in the West to 83 in the East. Departure from normal high temperatures ranged from 1 degrees below normal in the West to 3 degrees below normal in the East. Low temperatures averaged from 69 degrees in the West to 67 degrees in the East. Departure from normal low temperature ranged from 2 degrees above normal in the West to 2 degrees above normal in the East.

Rainfall for the period totaled 1.29 inches statewide which was 0.24 inches above normal. Rainfall totals by climate division, West 0.45 inches, Central 1.36 inches, Bluegrass 1.37 inches and East 2.00 inches, which was 0.48 below, 0.25 above, 0.31 above and 0.87 inches, respectively, above normal. By station, rainfall totals ranged from a low of 0.00 inches at Henderson to a high of 3.93 inches at Berea.

Tom Priddy

KENTUCKY TEMPERATURES AND RAINFALL

FOR WEEK ENDING SUNDAY, JULY 14, 7:00 P.M.

Weather Station	Rainfall			Deviation From		Air Temperature				Growing Degree Days		
	Last Week	Since April 1	Last Four Wks	Norm Since Apr. 1	Norm Last 4 Wks	High	Low	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr. 1
	(Inches)			(Degrees Fahrenheit)								
Bardstown	1.57	19.14	2.33	+4.87	-1.64	90	64	75.8	-0	174	1906	+145
Berea	3.93	24.15	5.38	+9.13	+1.54	88	65	76.6	+1	181	1955	+149
Bowling Green	1.02	15.68	1.72	+0.11	-2.37	90	62	70.3	-6	154	1922	+86
Bristol	0.58	8.23	3.64	-4.46	+0.04	88	61	74.5	-1	166	1830	+174
Buckhorn Lake	2.14	14.94	4.33	+0.74	+0.21	89	62	74.8	-1	169	1819	+237
Cape Girardeau	0.31	21.54	0.71	+6.85	-2.51	96	64	79.6	+2	192	2027	+102
Campbellsville	2.90	18.80	4.86	+2.28	+0.49	91	66	76.6	+0	180	1988	+212
Covington	0.40	17.92	0.77	+4.14	-2.94	91	61	75.1	-0	169	1687	+77
Cumberland Gap	0.93	10.43	3.74	-5.10	-0.63	89	64	75.7	+0	174	1885	+259
Dix Dam	2.01	18.84	2.87	+3.97	-1.08	90	64	76.3	+1	176	1886	+125
Evansville	0.44	18.77	1.39	+4.69	-2.06	95	65	78.8	+1	189	1945	+125
Glasgow	3.50	18.32	6.13	+1.71	+1.59	93	67	77.9	+2	184	2090	+344
Grayson	1.79	14.53	2.52	+0.61	-1.47	91	62	74.4	-1	164	1801	+280
Hardinsburg	0.48	16.64	1.08	+1.52	-2.84	92	64	75.1	-1	169	1906	+70
Henderson	0.00	21.21	0.86	+6.76	-2.76	94	63	78.4	+1	186	1988	+138
Huntington	2.00	14.87	3.02	+1.08	-0.93	91	62	73.9	-1	162	1796	+156
Jackson	2.02	16.41	3.00	+1.64	-1.15	87	63	74.6	-1	169	1832	+250
Lexington	0.74	12.61	1.30	-1.66	-2.67	93	63	76.1	+1	174	1807	+167
London	1.65	13.06	3.18	-0.89	-0.66	89	65	75.5	+0	175	1800	+174
Louisville	0.67	17.28	0.90	+2.93	-2.75	93	64	75.7	-0	173	1887	+67
Mayfield	0.00	12.51	0.25	-2.95	-3.35	91	65	75.9	-2	174	1901	+4
Nashville	1.02	13.66	4.90	-0.95	+1.44	93	69	78.4	+2	189	2085	+130
Nolin Lake	0.89	15.76	1.48	-0.45	-2.63	91	64	71.7	-4	153	1895	+208
Paducah	1.09	18.30	1.59	+2.41	-2.19	97	66	80.0	+2	192	2056	+145
Princeton	0.86	18.24	2.32	+2.69	-1.41	94	65	79.0	+1	191	2123	+243
Quicksand	2.49	16.26	4.74	+1.49	+0.59	89	61	74.6	-1	168	1824	+242
Somerset	2.98	16.01	4.62	+0.14	+0.43	89	65	75.6	+0	174	1845	+128
Spindletop	0.27	11.27	0.33	-3.00	-3.64	91	61	74.2	-1	163	1753	+113
Williamstown	0.86	15.79	2.42	+1.41	-1.39	91	60	75.3	-0	168	1858	+218

The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (859)257-3000 ext 245. E-mail: tpriddy@ca.uky.edu Additional Ky weather data available on Internet at: <http://www.wagwx.ca.uky.edu/>

Livestock Weather Safety Index Chart

Dry Bulb Temp(F)	Relative Humidity Intervals (Percent)									
	10	20	30	40	50	60	70	80	90	100
78			70	71	72	74	75	75	77	78
80		70	72	73	74	75	77	78	79	80
82	70	71	73	74	75	76	78	79	81	82
84	71	72	74	75	77	78	80	81	83	84
86	72	74	75	77	78	80	81	83	84	86
88	73	75	76	78	80	81	83	85	87	88
90	74	76	78	79	81	83	85	87	88	90
92	75	77	79	81	83	84	86	88	90	
94	76	78	80	82	84	86	88	90		
96	77	79	81	84	86	88	90			
98	78	80	82	85	87	89				
100	79	82	84	86	88	91				

EMERGENCY STRESS - Index of 84 or Greater

DANGER STRESS - Index of 79 to 83

NO STRESS - Index of 78 or Less

DANGER - EXPECT 25% or more increase in transit loss!

EMERGENCY - EXPECT 45% or more increase in transit loss!

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